

400 Seventh St., S.W. Washington, D.C. 20590

Research and Special Programs Administration

## IAEA CERTIFICATE OF COMPETENT AUTHORITY SPECIAL FORM RADIOACTIVE MATERIALS CERTIFICATE NUMBER USA/0458/S, REVISION 3

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency and the United States of America for the transport of radioactive materials.

- 1. Source Identification Neutron Products, Inc. Model NPRP 450-10-B.
- 2. <u>Source Description</u> The source authorized by this certificate is a cylindrical, double encapsulation constructed of 316L stainless steel with fusion welded endcaps. The outer capsule is 451 mm (17.8 in) in length and 9.7 mm (0.382 in) in diameter. The source shall be constructed in accordance with Neutron Products, Inc. Drawing No. A-200355, Revision A (attached), or Neutron Products, Inc. Drawing No. A-200355, Revision B (attached).
- 3. Radioactive Contents Source capsules manufactured in accordance with Neutron Products, Inc. Drawing No. A-200355, Revision A, shall contain not more than 445 TBq (12,000 Ci) of Cobalt-60 in the form of metal pellets. Source capsules manufactured in accordance with Neutron Products, Inc. Drawing No. A-200355, Revision B, shall contain not more than 500 TBq (13,500 Ci) of Cobalt-60 in the form of metal pellets.
- 4. Quality Assurance Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors and consignees in the United States exporting or importing shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.
- 5. Expiration Date This certificate expires February 28, 2007.

<sup>1 &</sup>quot;Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

<sup>2</sup> Title 49, Code of Federal Regulations, Parts 100 - 199, United States of America.

## CERTIFICATE USA/0458/S, REVISION 3

This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the petition and information dated May 29, 2001 submitted by Neutron Products, Inc., Dickerson, MD, and in consideration of other information on file in this Office.

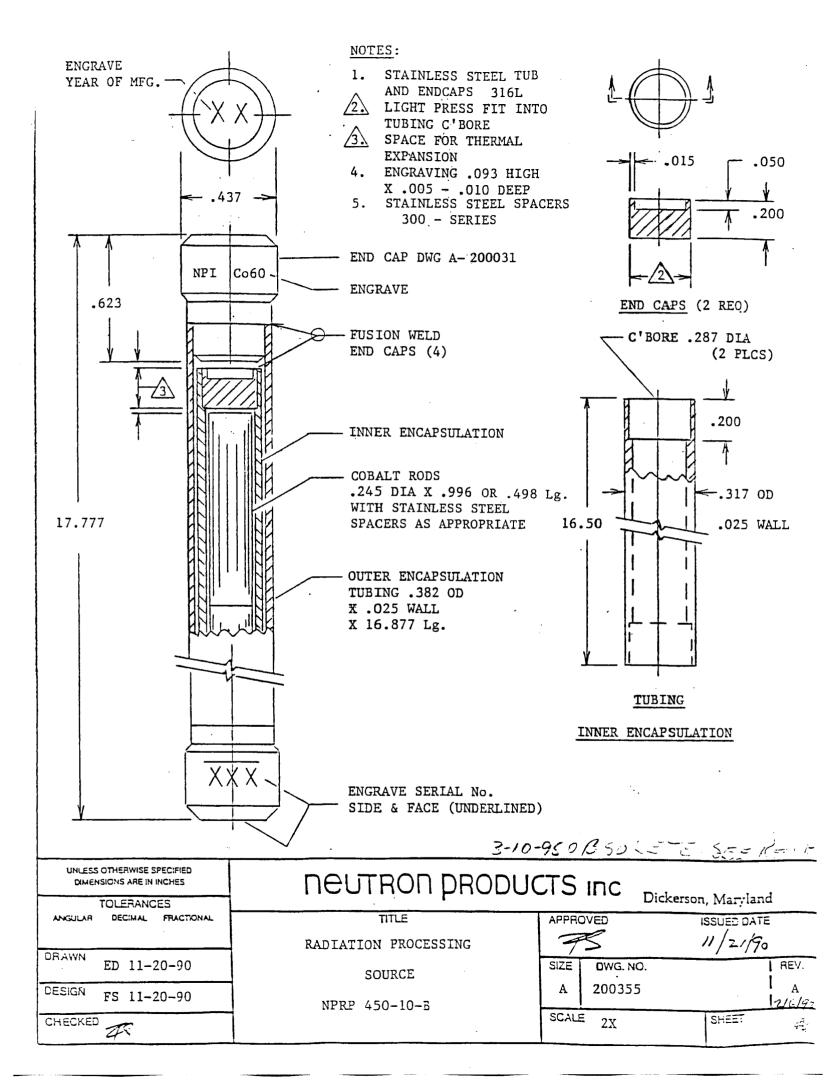
Robert A. McGuire Associate Administrator for

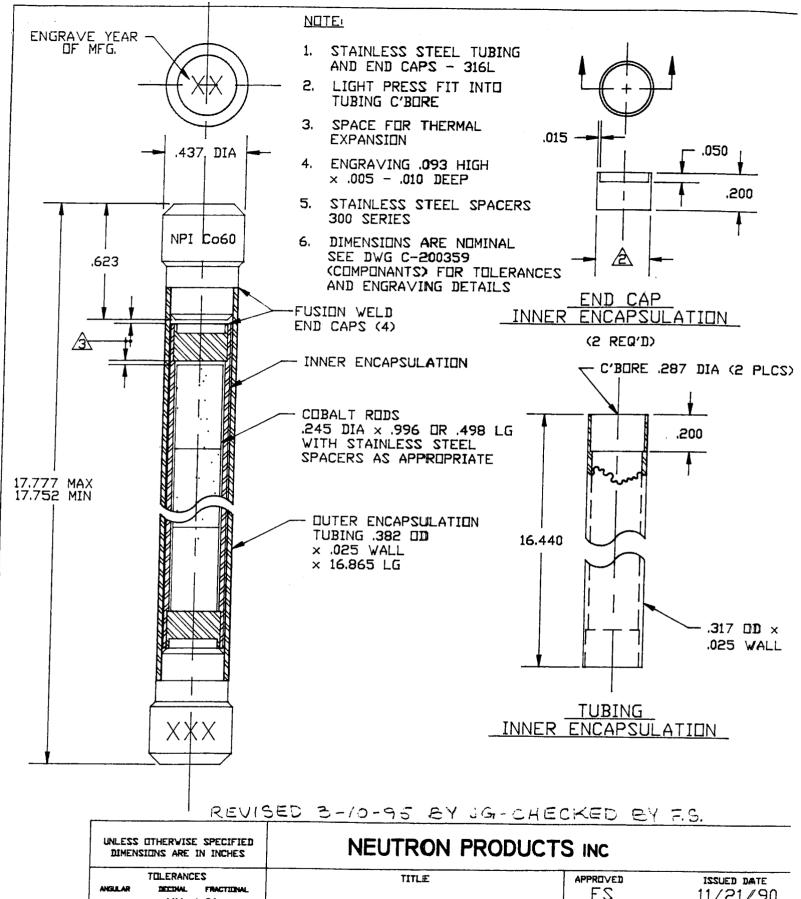
Hazardous Materials Safety

FEB 2 1 2002

(DATE)

Revision 3 - Issued to approve the sources against the 1996 IAEA regulations, and to extend the expiration date.





UNLESS LITHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	NEUTRON PRODUCTS INC				
TOLERANCES ANGLAR DECOMAL FRACTIONAL +2* ,XX=±,01	TITLÆ	APPROVED FS		11/21/90	
.XXX=±.005	RADIATION PROCESSING	SIZE	DVG. NO.		REV
DRAWNED 11-20-90	SOURCE	Α	2003	55	В
DESIGN ED 11-20-90	NPRP 450-10-B	SCALE		SHEE	π
CHECKED FS			5X	1 [	]F 1